

PROJECT NUMBER: 1333
PROJECT TITLE: Semiworks Process Control
PROJECT LEADER: D. A. Phan
PERIOD COVERED: June, 1988

- A. Objective: Evaluate and revise the process control and data acquisition system to improve processing performance and production quality.

- B. Results:

Hauni HT Steam Tunnel Installation (Oliver) - A new infeed conveyor is being fabricated by Rayco to replace the troublesome Corra-Trough conveyor. This work is coordinated by F. Boothe of R&D Development Engineering. This conveyor is planned to be installed on 7/22/88. The tunnel is expected to arrive in Richmond the week of 7/18/88. Installation is scheduled to begin on 7/29/88.

3,000-lb. Steam Cylinder Upgrade - (Oliver/Medek/Sims) - Installation of a new steam and water piping rack at the 3,000-lb. preblend steam cylinder was complete and successfully checked out. The system will be back on-line the week of 7/5/88.

Temperature Control System for Scandia Overwrappers (Phan/Sims) - Installation of a temperature control system to control the Scandia end-seal heaters for improving pack seal quality has begun and will be completed the week of 7/5/88.

Computrac Off-Line Moisture Analyzer Evaluation (White) - Evaluation of the Computrac off-line Max 50 deep-well moisture analyzer, located in the Semiworks QA lab, was complete. Results indicated that the analyzer: (1) is compatible with the Computrac currently being used in the small scale process, and (2) has a standard error of estimate of 0.4, with a correlation of coefficient of 0.98 for 45 samples of different tobacco types with moisture levels from 8 to 20%.

- C. Plans: Complete the checkout of temperature control systems for six Scandia overwrappers and removal of the Quester steam tunnel. Begin electrical and instrumentation design for the second aftercut cylinder. Continue to provide electrical plant engineering support to the Semiworks and conduct routine QA functions.